AMENDMENT TO THE CLAIMS

2

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A semiconductive power cable composition comprising:
 - a. a mixture of a high-temperature polymer <u>being a polymer suitable to impart</u> <u>heat resistance to the semiconductive cable layer</u> and a soft polymer <u>being a polymer</u> that enhances the processing characteristics of the high temperature polymer; and
 - b. a conductive filler,

wherein

- (i) a semiconductive cable layer prepared from the composition strippably adheres to a second cable layer, and
- (ii) the resulting semiconductive cable layer having a heat resistance of less than 100% as measured by a Hot Creep test at a testing temperature of 150 degrees Centigrade.
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Original) The semiconductive power cable composition of Claim 1 wherein the high-temperature polymer is selected from the group consisting of polypropylenes, polyesters, nylons, polysulfones, and polyaramides and the soft polymer is selected from the group consisting of polyethylenes, polypropylenes, polyesters, and rubbers.
- 5. (Original) The semiconductive power cable composition of Claim 4 wherein the high-temperature polymer is a polypropylene and the soft polymer is a polyethylene.
- 6. (Original) The semiconductive power cable composition of Claim 5 wherein the polyethylene is a copolymer of a polar monomer and a nonpolar monomer.
- 7. (Original) The semiconductive power cable composition of Claim 1 wherein the conductive filler is selected from the group consisting of carbon blacks, carbon fibers, carbon nanotubes, graphite particles, metals, and metal-coated particles.
- 8. (Cancelled).
- 9. (Original) The semiconductive power cable composition of Claim 1, further comprising a curing agent.

10. (Original) The semiconductive power cable composition of Claim 1 further comprising a coupling agent.

3

- 11. (Original) The semiconductive power cable composition of Claim 10 wherein the coupling agent reduces the amount of a curing agent required to impart heat resistance to the semiconductive cable layer.
- 12. (Original) The semiconductive power cable composition of Claim 11 further comprising a curing agent.
- 13. (Original) The semiconductive power cable composition of Claim 1 wherein the mixture further comprises a compatibilizing polymer.
- 14. (Original) A semiconductive cable layer prepared from the semiconductive power cable composition of Claim 1.
- 15. (Currently Amended) A power cable construction <u>comprising</u>: prepared by applying the semiconductive cable layer of Claim 14 over a wire or cable
 - (a) a wire or a cable;
 - (b) a semiconductive layer according to Claim 14 applied over the wire or cable.
- 16. (Currently Amended) A process for preparing a semiconductive power cable composition comprising the step of:

blending a mixture of a high-temperature polymer being a polymer suitable to impart heat resistance to the semiconductive cable layer, a soft polymer being a polymer that enhances the processing characteristics of the high temperature polymer, and a conductive filler,

wherein

- (i) a semiconductive cable layer prepared from the composition strippably adheres to a second cable layer,
- (ii) the resulting semiconductive cable layer having a heat resistance of less than 100% as measured by a Hot Creep test at a testing temperature of 150 degrees Centigrade.
- 17. (Original) The process of Claim 16, wherein the mixture further comprises a coupling agent.
- 18. (Original) A process for preparing a semiconductive power cable composition comprising the steps of:

Application No. 10/549,828 Amendment dated December 24, 2008 Reply to Office Action of June 24, 2008

- a. reactively-coupling a mixture of a high-temperature polymer, a soft polymer, and a coupling agent, in the presence of a conductive filler, wherein the coupling agent reduces the amount of a curing agent required to impart heat resistance to a semiconductive cable layer prepared from a mixture of the high-temperature polymer, the soft polymer, and the conductive filler in the absence of the coupling agent; and
- b. admixing a curing agent,

wherein a semiconductive cable layer prepared from the composition strippably adheres to a second cable layer.

4

- 19. (Original) A process for preparing a power cable comprising the steps of:
 - a. extruding a semiconductive power cable composition comprising a mixture of a high-temperature polymer, a soft polymer, and a conductive filler, over a metallic conductor to yield a semiconductive cable layer over the metallic conductor; and
- b. extruding a polymer-dielectric insulation over the semiconductive cable layer.
 20. (Original) The process for preparing a power cable of Claim 19 further comprising the step of
 - c. extruding a second semiconductive power cable composition over the polymer-dielectric insulation to yield a second semiconductive cable layer.
- 21. (Original) A process for preparing a power cable comprising the steps of:
 - a. extruding a power cable semiconductive composition comprising a mixture of a high-temperature polymer, a soft polymer, and a conductive filler, over a metallic conductor to yield a semiconductive cable layer over the metallic conductor;
 - b. extruding a chemically-crosslinkable insulation composition over the semiconductive cable layer;
 - c. extruding a second semiconductive power cable composition over the polymer-dielectric insulation to yield a second semiconductive cable layer; and
 - d. crosslinking the chemically-crosslinkable insulation composition to yield a crosslinked, polymer-dielectric insulation.
- 22. (New) The power cable construction of Claim 15 further comprising a second cable layer, wherein the second cable layer being chemically-crosslinked.